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Subject :
International application number PCT/EG 2003/000010

Claims :


There were originally 6 claims filed, claims 3, 4, 5, 6 are cancelled;
Claim 1 and 2 are unchanged, claims 7 to 13 are added.

7. The ball for the valve mechanism is inflatable by CO₂, air, flowable gelatinous material, metallic powder, radioopaque fluid or hardening agent.
8. The ball for the valve mechanism comprising a check valve for inflation or deflation.
9. The inflatable ball wherein the check valve for inflation is of a breakaway design to permit separation from the means for injecting.
10. The ball for the valve mechanism where the one way valve comprises a plug of an elastomer having a slit through which closes upon application of pressure within the tubing.
11. The ball for the valve mechanism where the ball is linked to the stent by a ribbon of biologically inert material to allow limited mobility of the ball and/or inflation or deflation of the ball alone or with the stent.
12. The ball for the valve mechanism where the ball is separate from the stent.
13. The ball for the valve mechanism that is modifiable and retrievable after implantation to allow further sizing as needed.
14. The lining of claim 1 and 2 that is fabricated solely or at least partly from a semipermeable membrane, and wherein the hollow wall has disposed hydrophilic material capable of absorbing a liquid to thereby increase the volume of said material. The final shape may be appropriate or modifiable by ballooning from the lumen or by inflation.

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15. The lining of claim 14 that is fabricated from a semipermeable membrane, and wherein the hollow wall has disposed hydrophilic material that is a gel.
16. The use of ultrashort stents (whether fixed, balloonable or inflatable) i.e. rings to support the valve mechanism instead of usual stents.

Wael Lotfy



AMENDED SHEET (ARTICLE 19)